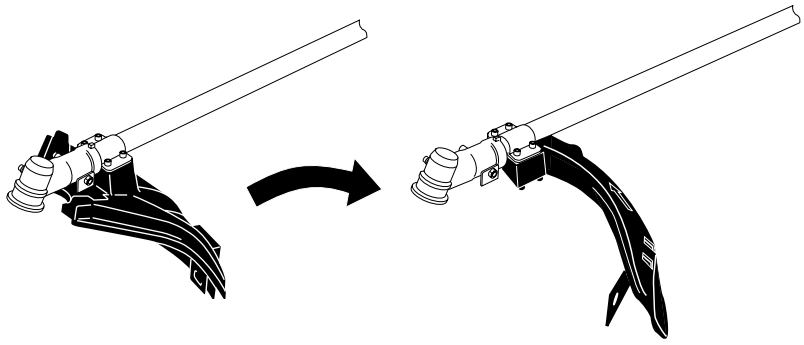
SHINDAIWA GRASS TRIMMER SHIELD UPGRADE INSTRUCTIONS

Model 80561
For all Grass Trimmers
22T, T230, T231, T260, T261, T270, T350, 65001 Multipurpose Trimmer Tool



EARLY SHIELD **NEW SHIELD**

WARNING!

Minimize the risk of injury to yourself and others! Read the Owner's/Operator's manual originally supplied with the unit that is being upgraded and familiarize yourself with the contents. Always wear eye and hearing protection when operating your unit.

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Introduction

These are instructions to convert a grass trimmer to a blade capable unit. This is not an Owner's/Operator's manual. Information on how to operate and maintain the unit can be found in the Owner's/Operator's manual for the unit you are converting. Note this kit is supplied with a cutting attachment shield that has been redesigned to provide better visibility and a larger cutting swath when used as a grass trimmer.

IMPORTANT!

If the cutting attachment shield has been removed from your unit, or the unit was manufactured prior to October 2001, an additional clamp kit will be required to complete this installation. The clamp kit required is Shindaiwa part number 80292.

IMPORTANT!

The information contained in these instructions describes the product available at the time of publication.

Echo, Inc. reserves the right to make changes to products without prior notice, and without obligation to make alterations to units previously manufactured.

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Attention Statements

Throughout this manual are special “attention statements”.

WARNING!

A statement preceded by the triangular attention symbol and the word “WARNING” contains information that should be acted upon to prevent serious bodily injury.

CAUTION!

A statement preceded by the word “CAUTION” contains information that should be acted upon to prevent mechanical damage.

IMPORTANT!

A statement preceded by the word “IMPORTANT” is one that possesses special significance.

NOTE:

A statement preceded by the word “NOTE” contains information that is handy to know and may make your job easier.

IMPORTANT!

The instructions described in this manual are intended to help you get the most from your Shindaiwa power tool as well as to protect you and others from harm. These procedures are guidelines for safe operation under most conditions, and are not intended to replace any safety rules and/or laws that may be in force in your area. If you have questions regarding your Shindaiwa power tool, or if you do not understand something in these instructions, your Shindaiwa dealer will be glad to assist you. You may also contact Shindaiwa at the address printed on the back of this instructional manual.

Read and follow this manual.Failure to do so could result in serious injury.

Wear eye and hearing protection at all times during the operation of this unit.

Keep bystanders at least 50 feet (15 m) away during operation.

Beware of thrown or ricocheted objects.

Do not operate this unit with a blade.

General Safety Instructions

Work Safely

Trimmers operate at very high speeds and can do serious damage or injury if they are misused or abused.

WARNING!

Use only authorized Shindaiwa parts and accessories with your Shindaiwa trimmer. Do not make modifications to this unit without the written approval of Echo, Inc.

Stay Alert

You must be physically and mentally fit to operate this unit safely.

WARNING!

Never operate power equipment of any kind if you are tired or if you are under the influence of alcohol, drugs, medication or any other substance that could affect your ability or judgement.

WARNING!

Minimize the Risk of Fire

NEVER smoke or light fires near the unit.
ALWAYS stop the engine and allow it to cool before refueling. Avoid overfilling and wipe off any fuel that may have spilled.
ALWAYS inspect the unit for fuel leaks before each use. During each refill, check that no fuel leaks from around the fuel cap and/or fuel tank. If fuel leaks are evident, stop using the unit immediately. Fuel leaks must be repaired before using the unit.
ALWAYS move the unit to a place well away from a fuel storage area or other readily flammable materials before starting the engine.
NEVER place flammable material close to the engine muffler.
NEVER run the engine without the spark arrester screen in place.

WARNING!

Use Good Judgment

NEVER operate the engine when transporting the unit.
NEVER operate the engine indoors! Make sure there is always good ventilation. Fumes from engine exhaust can cause serious injury or death.
ALWAYS use the proper cutting tool for the job.
ALWAYS stop the unit immediate-ly if it suddenly begins to vibrate or shake. Inspect for broken, missing or improperly installed parts or attachments.
NEVER extend trimming line beyond the length specified for your unit.
ALWAYS keep the unit as clean as practical. Keep it free of loose vegetation, mud, etc.
ALWAYS hold the unit firmly with both hands when cutting or
trimming, and maintain control at all times.
ALWAYS keep the handles clean.
ALWAYS disconnect the spark plug wire before performing any maintenance work.

Safety Labels

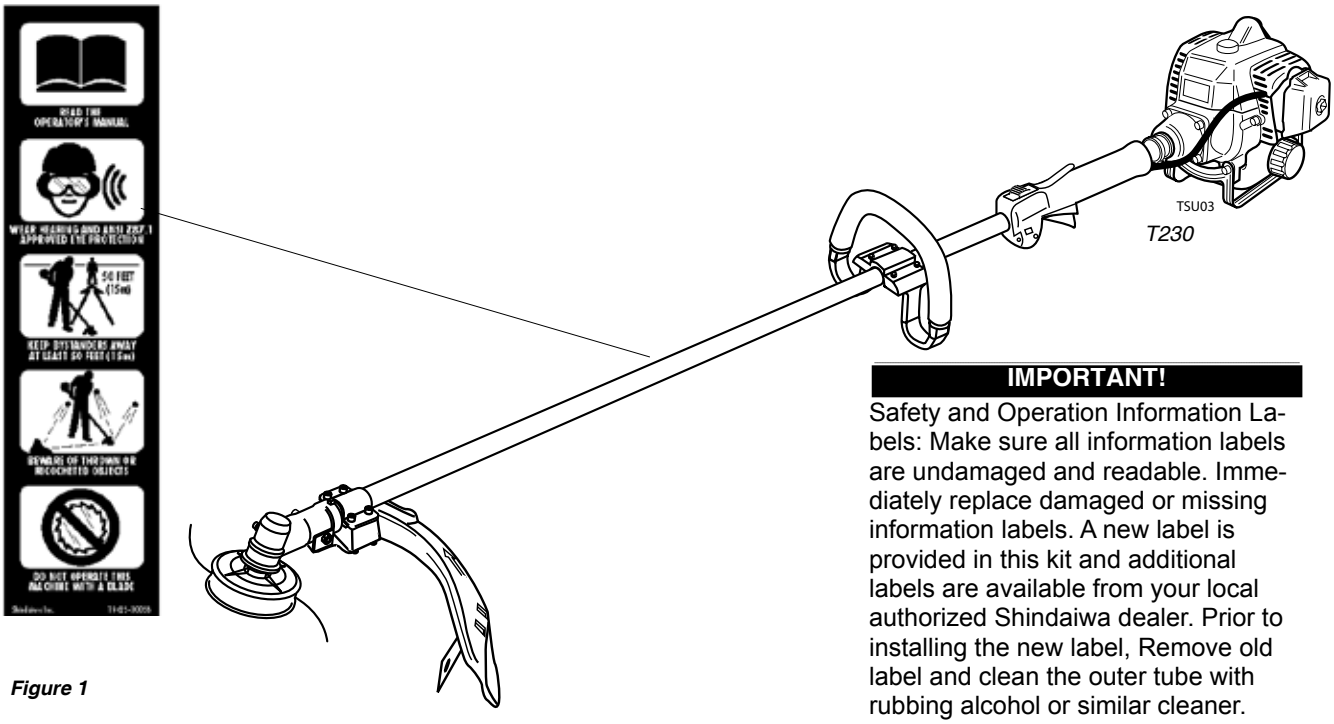


Figure 1

IMPORTANT!

Safety and Operation Information Labels: Make sure all information labels are undamaged and readable. Immediately replace damaged or missing information labels. A new label is provided in this kit and additional labels are available from your local authorized Shindaiwa dealer. Prior to installing the new label, Remove old label and clean the outer tube with rubbing alcohol or similar cleaner.

The Properly Equipped Operator

Wear close-fitting clothing to protect legs and arms. Gloves offer added protection and are strongly recommended. Do not wear clothing or jewelry that could get caught in machinery or underbrush. Secure long hair so that it is above shoulder level. NEVER wear shorts!

Wear hearing protection devices and a broad-brimmed hat or helmet.

***Always** wear eye protection such as goggles or safety glasses to shield against thrown objects.*

***Always** operate with both hands firmly gripping the unit.*

*Keep a proper footing and **do not overreach**. Maintain your balance at all times during operation.*

***Always** make sure the appropriate cutting attachment shield is correctly installed and in good condition.*

Keep away from the rotating cutting attachment at all times, and never lift a moving attachment above waist-high.

*Wear appropriate footwear (non-skid boots or shoes): do not wear open-toed shoes or sandals. **Never work barefooted!***

Figure 2

Be Aware of the Working Environment (all units)

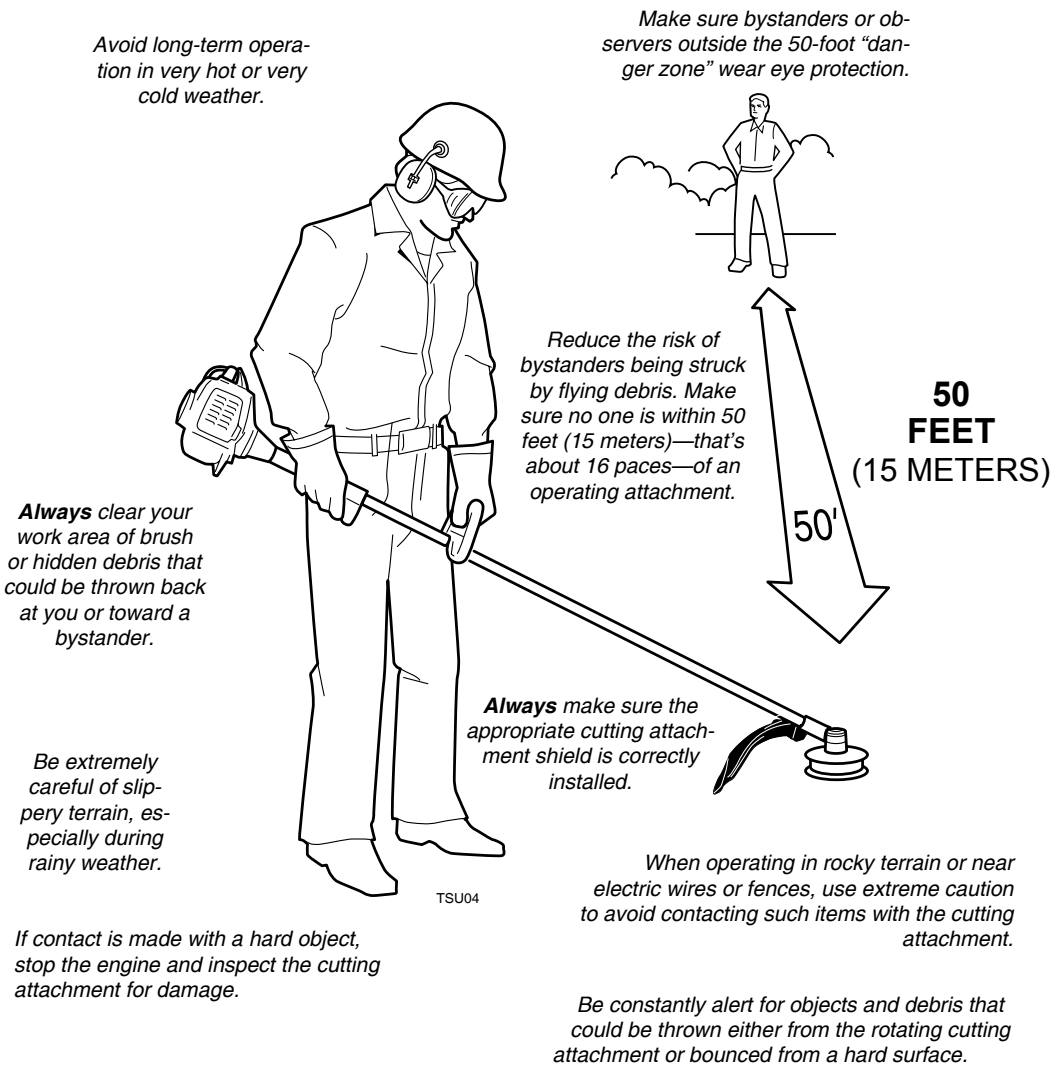

Avoid long-term operation in very hot or very cold weather.
Make sure bystanders or observers outside the 50-foot "danger zone" wear eye protection.
Reduce the risk of bystanders being struck by flying debris. Make sure no one is within 50 feet (15 meters)—that's about 16 paces—of an operating attachment.
50 FEET (15 METERS)
50'
Always clear your work area of brush or hidden debris that could be thrown back at you or toward a bystander.
Always make sure the appropriate cutting attachment shield is correctly installed.
Be extremely careful of slippery terrain, especially during rainy weather.
TSU04
When operating in rocky terrain or near electric wires or fences, use extreme caution to avoid contacting such items with the cutting attachment.
If contact is made with a hard object, stop the engine and inspect the cutting attachment for damage.
Be constantly alert for objects and debris that could be thrown either from the rotating cutting attachment or bounced from a hard surface.

Figure 3

WARNING!

ALWAYS make sure the cutting attachment is properly installed and firmly tightened before operation.

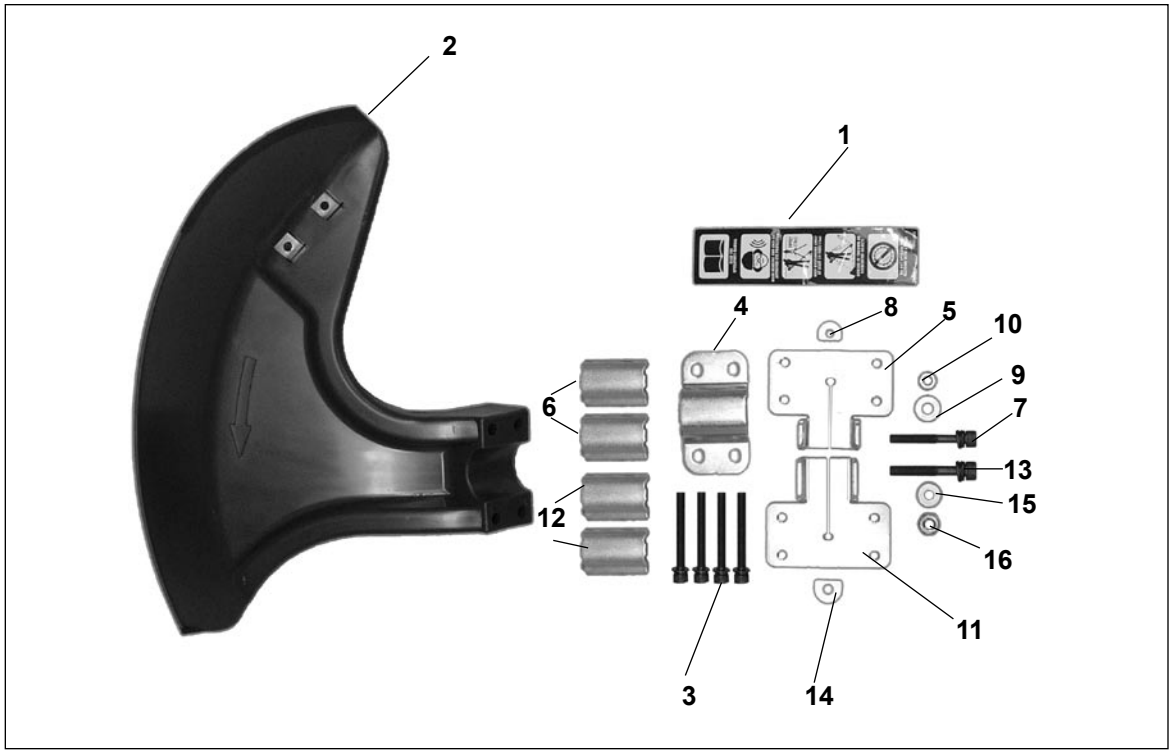
NEVER use a cracked or warped cutting attachment: If a properly installed attachment vibrates, replace the attachment with a new one and re-check.

ALWAYS stop the engine immediately and check for damage if you strike a foreign object or if the unit becomes tangled. Do not operate with broken or damaged equipment.

NEVER allow the engine to run at high RPM without a load. Doing so could damage the engine.

NEVER operate a unit with worn or damaged fasteners or attachment holders.

Kit Contents



FITS MODELS				
#	Description	Qty	T230, T231, T260, T261, 65001, 22T	T270, T350
1	Warning Label	1	X	X
2	Debris Shield	1	X	X
3	Debris Shield Clamp Bolt	4	X	X
4	Debris Shield Upper Clamp	1	X	X
5	Cutting Attachment Shield Mounting Plate 24 mm (small)	1	X	
6	Outer Tube Shim 24 mm (thick)	2	X	
7	Clamp Bolt (small)	1	X	
8	D-Washer (small)	1	X	
9	Flat Washer (small)	1	X	
10	Retaining Nut (small)	1	X	
11	Cutting Attachment Shield Mounting Plate 26 mm (large)	1		X
12	Outer Tube Shim 26 mm (thin)	2		X
13	Clamp Bolt (large)	1		X
14	D-Washer (large)	1		X
15	Flat Washer (large)	1		X
16	Retaining Nut (large)	1		X

Assembly

Removing the Old Cutting Attachment Shield

Remove the Existing Cutting Attachment Shield.

IMPORTANT!

You must know the model designation of the unit before you begin. Some units have an outer tube of a different diameter so the correct size parts must be used to secure the shield properly.

1. Remove the four socket-head cap screws, bracket and two shims. See Figure 4.
2. Remove the retaining nut, washer and gearcase clamp screw. If possible, do not disturb the D-washer.
3. Remove the cutting attachment shield from the gearcase.

NOTE:

It is not necessary to retain these parts.

CAUTION!

The D-Washer is a spacer that prevents overtightening and must remain in place to prevent possible damage to the gearcase clamp.

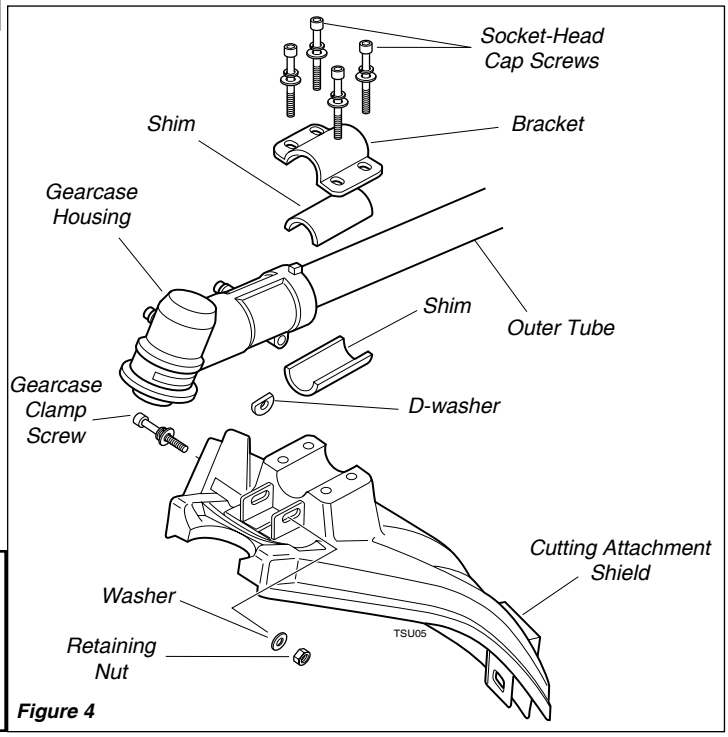


Figure 4

WARNING!

A cutting attachment shield or other protective device is no guarantee of protection against ricochet. YOU MUST ALWAYS GUARD AGAINST FLYING DEBRIS!

New Grass Trimmer Cutting Attachment Shield

Assemble the Cutting Attachment Shield to the Outer Tube.

1. Choose the shims and shield mounting plate hardware that matches your model designation. See Contents List for model references.
2. Take special care that the D-washer is installed in the gearcase clamp. See Figure 5.
3. Install the cutting attachment shield mounting plate to the gearcase with the clamp screw only finger tight at this time. See Figure 5.
4. Insert the cutting attachment shield between the outer tube and the cutting attachment mounting plate. See Figure 5.
5. Fit the two shims and the bracket over the outer tube and install the four socket-head cap screws finger tight. See Figure 5.
6. Tighten the gearcase clamp screw, then install the washer and retaining nut and tighten securely.

CAUTION!

Make sure the clamp screw and retaining nut are securely tightened before tightening the four socket head screws**.**

7. Tighten the four socket-head cap screws to secure the cutting attachment shield.

WARNING!

NEVER operate the unit without the cutting attachment shield installed and tightly secured!

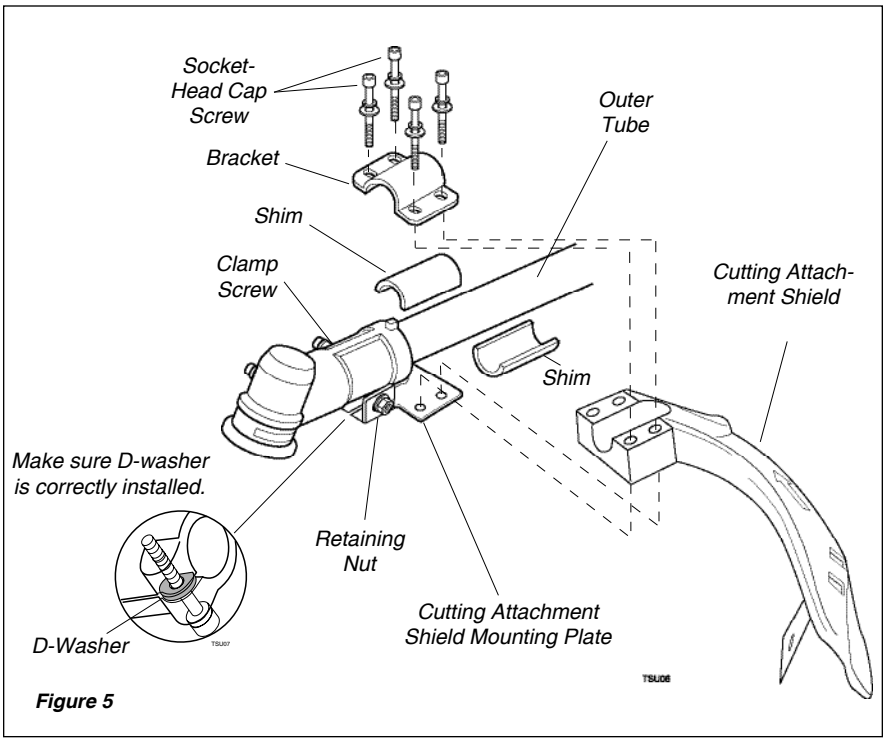


Figure 5

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Consumer Product Support

If you require assistance or have questions concerning the application, operation or maintenance of this product you may call the Shindaiwa Consumer Product Support Department at 1-877-986-7783 from 8:30 am to 4:30 pm (Central Standard Time) Monday through Friday. Before calling, please know the model and serial number of your unit.

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